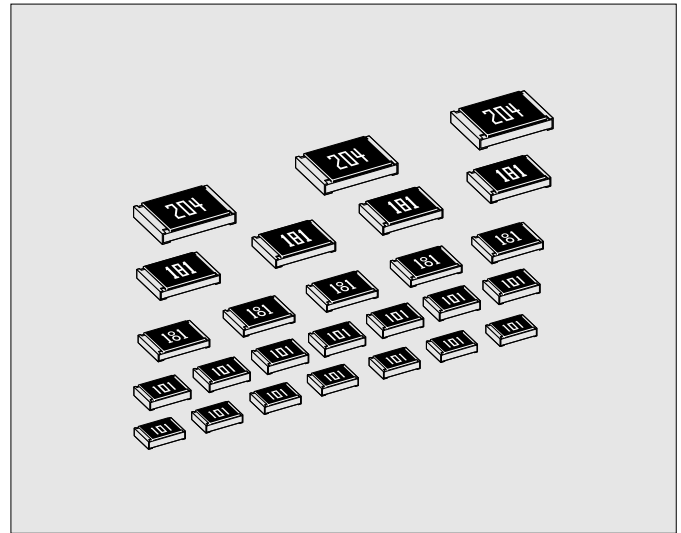


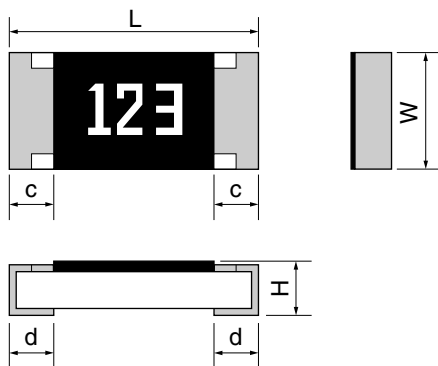
# RVC16, 20, 32, 50, 63

## ●Features

1. Anti high voltage, compared with RMC series.
2. 5 sizes available : from 0603 to 2512.
3. Stability Class : 5%



## ●Dimensions



Rated resistance is marked with 3-digit (E24 series) or 4-digit (E96 series) on the over coating.  
RVC16 4-digit marking is not available.

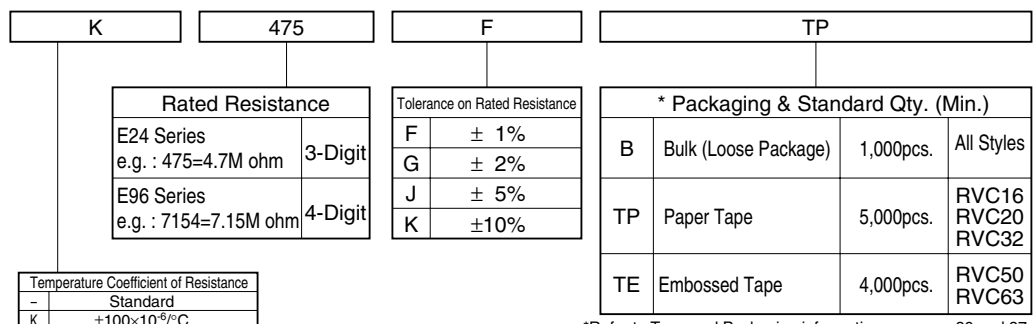
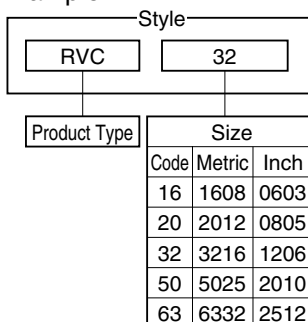
Unit : mm

Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.
RVC16	1608	0603	1.6±0.1	0.8 <sup>+0.15</sup> <sub>-0.05</sub>	0.45±0.10	0.3±0.1	0.3±0.1	2mg
RVC20	2012	0805	2.0±0.1	1.25±0.10	0.55±0.10	0.4±0.2	0.4±0.2	5mg
RVC32	3216	1206	3.2±0.15	1.6 ±0.15	0.55±0.10	0.5±0.25	0.5±0.25	9mg
RVC50	5025	2010	5.0±0.15	2.5 ±0.15	0.55±0.15	0.6±0.2	0.6±0.2	25mg
RVC63	6332	2512	6.3±0.15	3.2 ±0.15	0.55±0.15	0.6±0.2	0.6±0.2	40mg

\*Values for reference

## ●Part Number Description

Example



\*Refer to Tape and Packaging information on pages 36 and 37.

●Ratings

Style	Rated Dissipation at 70°C W	Limiting Element Voltage V	Temperature Coefficient of Resistance		Combinations of Rated Resistance Range and Tolerance on Rated Resistance		Preferred Number Series for Resistors	Isolation Voltage V	Category Temperature Range °C
			Code	10 <sup>-6</sup> /°C	F(±1%), G(±2%)	J(±5%), K(±10%)			
RVC16	0.1	200	K	±100	470 ohm ~ 10M ohm		Tolerance:F(±1%)	100	-55~+125
			-	±200	47 ohm ~ 464 ohm				
RVC20	0.125	300	K	±100	100 ohm~10M ohm	100 ohm~51M ohm	Tolerance:G(±2%)	500	
			-	±200	47 ohm ~ 97.6 ohm				
RVC32	0.25	400	K	±100	100 ohm~10M ohm	100 ohm~51M ohm	E96 Series E24 Series	500	
			-	±200	47 ohm ~ 97.6 ohm				
RVC50	0.5	500	K	±100	470 ohm~20M ohm	470 ohm~51M ohm	Tolerance:J(±5%)	500	
			-	±200	47 ohm ~ 464 ohm				
RVC63	1.0	800	K	±100	560 ohm~20M ohm	560 ohm~51M ohm	Tolerance:K(±10%) E24 Series	500	
			-	±200	100 ohm ~ 549 ohm				
			-	+500~-200	47 ohm ~ 97.6 ohm				

Note1. Rated Voltage = √(Rated Dissipation)×(Rated Resistance). (d.c. or a.c. r.m.s. Voltage)

Note2. Limiting Element Voltage can only be applied to resistors when the resistance value is equal to or higher than the critical resistance value.

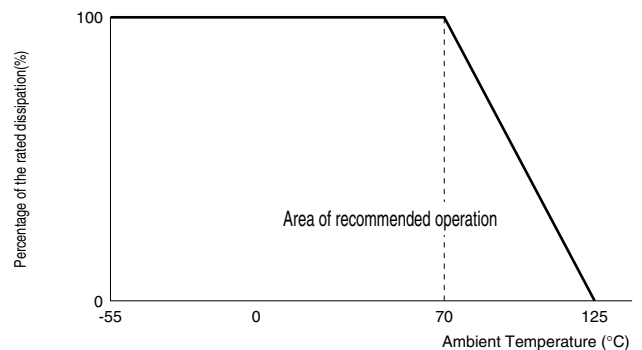
●Derating Curve

The derated values of dissipation for temperatures in excess of 70°C shall be indicated by the following Curve.

●Climatic Category

55/125/56

Lower Category Temperature -55°C  
 Upper Category Temperature +125°C  
 Duration of the Damp heat, Steady-State Test 56 days



●Performance Characteristics JIS C 5201-1 : 1998

Description	Requirements	Test Methods
Voltage proof	No breakdown or flashover R≥1G ohm	Clause 4.7 RVC16 100Va.c.,60s RVC20~RVC63 500Va.c.,60s
Variation of resistance with temperature	See Ratings Table	Clause 4.8 Measuring temperature :+20°C/-55°C/+20°C/+125°C/+20°C
Overload	ΔR≤±(1%+0.05 ohm) No visible damage, legible marking	Clause 4.13 The applied voltage shall be 2.5 times of the rated voltage or twice of the limiting element voltage, whichever is the less severe, 2s.
Solderability	In accordance with Clause 4.17.4.5	Clause 4.17 235°C, 2s
Resistance to soldering heat	ΔR≤±(1%+0.05 ohm)	Clause 4.18 After immersion into the flux, the immersion into solder shall be carried out in Solder bath at 260°C for 5s.
Rapid change of temperature	ΔR≤±(1%+0.05 ohm) No visible damage	Clause 4.19 5 cycles between -55°C and +125°C.
Climatic sequence	ΔR≤±(5%+0.1 ohm) No visible damage	Clause 4.23 Dry/Damp heat(12+12h cycle), first cycle./ Cold/Damp heat(12+12h cycle), remaining cycle. /D.C.Load.
Damp test, steady state	ΔR≤±(5%+0.1 ohm) No visible damage, legible marking	Clause 4.24 40°C, 95%R.H., 56 days, test a) and b) of Clause 4.24.2.1
Endurance at 70°C	ΔR≤±(5%+0.1 ohm) No visible damage	Clause 4.25.1 Rated voltage, 1.5h"ON", 0.5h"OFF", 70°C, 1,000h.
Endurance at the upper category temperature	ΔR≤±(5%+0.1 ohm) No visible damage	Clause 4.25.3 125°C, no-load, 1,000h.
Adhesion	No visible damage	Clause 4.32 5N, 10s
Bend strength of the face plating	ΔR≤±(1%+0.05 ohm)	Clause 4.33 RVC16~RVC32 Amount of bend : 3 mm RVC50, 63 Amount of bend : 1 mm